

**We Claim:**

1. A composition comprising:
  - 5 (a) at least one cationically curable species;
  - (b) at least one cationic photoinitiator; and
  - (c) at least one encapsulated, polymer-bound base.
- 10 2. The composition of Claim 1 wherein said cationically curable species is a monomer.
- 15 3. The composition of Claim 1 wherein said cationically curable species is selected from the group consisting of vinyl ethers; vinylidene ethers; N-vinyl carbazoles; vinyl silanes; N-vinyl pyrrolidinone; 1,1-dialkyl-, trialkyl-, and tetralkyl-substituted olefins; styrene and substituted styrenes; cyclic and acyclic olefins; conjugated diolefins; epoxides; cyclic ethers; and mixtures thereof.
- 20 4. The composition of Claim 1 wherein said cationically curable species is selected from the group consisting of epoxides, vinyl ethers, and mixtures thereof.
5. The composition of Claim 1 wherein said photoinitiator comprises an onium salt.
- 25 6. The composition of Claim 5 wherein said onium salt comprises at least one anion selected from the group consisting of:
$$(R_fSO_2)_2C^-$$
and
$$(R_fSO_2)_2N^-$$
wherein each  $R_f$  is independently selected from the group consisting of fluorinated or perfluorinated alkyl radicals having from 1 to about 20 carbon atoms, fluorinated aryl radicals having from 6 to about 10 carbon atoms, and ring structures formed from two said fluorinated or perfluorinated alkyl radicals joined together to form a unitary alkylene
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radical having 5 or 6 ring atoms, said radicals optionally containing one or more divalent oxygen, trivalent nitrogen, or divalent sulfur atoms.

- 5        7.        The composition of Claim 1 wherein said photoinitiator comprises an organometallic complex.
- 10       8.        The composition of Claim 1 wherein said encapsulated, polymer-bound base is selected from those represented by the formula  $A-B_n$ , wherein A is a substantially insoluble particle, each B is an independently selected base unit, n is an integer of at least 1, and A and B are joined by a covalent chemical bond.
- 15       9.        The composition of Claim 8 wherein said A is selected from the group consisting of organic polymer particles and inorganic particles.
- 15       10.       The composition of Claim 9 wherein said A is an organic polymer particle.
- 15       11.       The composition of Claim 8 wherein said A comprises at least one side-chain crystallizable polymer.
- 20       12.       The composition of Claim 11 wherein said side-chain crystallizable polymer comprises  $C_{12} - C_{50}$  aliphatic groups.
- 25       13.       The composition of Claim 8 wherein said B is selected from the group consisting of primary amines, secondary amines, tertiary amines, and heterocyclic amines.
- 25       14.       The composition of Claim 1 wherein said encapsulated, polymer-bound base is enclosed in at least one encapsulant material.
- 30       15.       The composition of Claim 14 wherein said encapsulated, polymer-bound base is microencapsulated.

16. A composition comprising:
  - (a) at least one cationically curable species selected from the group consisting of epoxides, vinyl ethers, and mixtures thereof;
  - (b) at least one onium salt; and
  - (c) at least one encapsulated, polymer-bound base selected from those represented by the formula  $A-B_n$ , wherein A comprises at least one side-chain crystallizable polymer; B is a base unit selected from the group consisting of primary amines, secondary amines, tertiary amines, and imidazoles; n is an integer of at least 1; and A and B are joined by a covalent chemical bond.
17. The composition of claim 16 wherein said onium salt comprises an anion selected from the group consisting of  $C(SO_2CF_3)_3^-$  and  $N(SO_2CF_3)_2^-$ , and said base unit is imidazole.
18. The composition of Claim 1 at least partially cured.
19. The composition of Claim 16 at least partially cured.
20. An article comprising the composition of Claim 18.
21. An article comprising the composition of Claim 19.
22. The article of Claim 20 further comprising at least one substrate having at least one surface that is degradable by acid.
23. The article of Claim 21 further comprising at least one substrate having at least one surface that is degradable by acid.
24. A process comprising the steps of:
  - (a) providing a composition comprising:
    - (1) at least one cationically curable species;
    - (2) at least one cationic photoinitiator; and

- (3) at least one encapsulated, polymer-bound base;
- (b) irradiating at least a portion of said composition to effect at least partial cure of said portion; and
- (c) exposing at least said portion of said composition to conditions sufficient to make said encapsulated, polymer-bound base chemically available for reaction.

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